



Basics

Basic F/T 10-4-4 + Fe

Material Safety Data Sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier Basic Fine Turf 10-4-4 + 3.5% Fe

1.2. Relevant identified uses of the substance or mixture and uses advised against
Relevant uses: Use as a professional use fertiliser.

1.3. Details of the supplier of the safety data sheet

Company: Indigrow Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.
Phone: +44 (0) 1189 710 995
Email: growth@indigrow.com

1.4. Emergency telephone number +44 (0) 7725 962 366

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Directive EC 1272/2008 Classification, Labelling and Packaging.

Physical hazards: Not Classified
Health hazards: Eye Irrit. 2 - H319
Environmental hazards: Not Classified

2.2. Label elements

Label elements:



Signal words: Warning
Hazard statements: H315: Causes skin irritation.
H319: Causes serious eye irritation.
Precautionary statements: P264: Wash contaminated skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
Supplementary precautionary statements: P321: Specific treatment (see medical advice on this label).
P362+P313: Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable.



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3.2. Mixtures

Compound fertiliser containing nitrogen, phosphorus pentoxide, potassium oxide and iron.

Ingredient	CAS/EINECS	Classification	% w/w
SSP Single Superphosphate	8011-76-5 232-379-5	Eye irr 2 H319 Xi: R41	10 - 30 %
Ferrous Sulphate Heptahydrate	7720-78-7	Acute tox 4 H302 Skin irr 2 H315 Eye irr 2 H319	10 - 30 %

The full text for all Hazard Statements are displayed in Section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Eye contact:	Immediately rinse with clean water for 15 minutes. Seek medical attention if symptoms persist or develop.
Skin contact:	Wash exposed areas of skin with soap and water following use. Wash all contaminated clothing before re-use.
Ingestion:	Wash out mouth with water and seek medical advice.
Inhalation:	Remove to fresh air.

4.2. Most important symptoms and effects, both acute and delayed

Eye Contact:	Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation.
Skin Contact:	Repeated and/or prolonged contact may cause irritation.
Ingestion:	Based on components, product is considered to present little hazard by oral exposure.
Inhalation:	Unlikely to cause harmful effects under normal handling and use.

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable. As such extinguishing media appropriate for surrounding materials should be chosen.

5.2. Special hazards arising from the substance or mixture

Possible irritant fumes arising from product decomposition.

5.3. Advice for fire-fighters

Contain spread of extinguishing fluids. Wear self-contained breathing apparatus in confined spaces.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective gloves and eye protection. Wash hands and exposed skin after handling.

6.2. Environmental precautions

Do not discharge into drains or rivers.



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6.3. Methods and material for containment and cleaning up

Sweep up and shovel product or use other means and place in container for reuse (preferred) or disposal.

6.4. Reference to other sections

Non applicable.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure good ventilation at workplace. Ensure good hygiene practices are observed. Do not eat, drink or smoke when handling this product. Do not breathe dust. Avoid contact with skin and eyes. Ensure workplace exposure limits are observed. Do not block stack pallets.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

7.3. Specific end use(s)

PC12: Fertiliser

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Occupational Exposure Limits: Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust). Nuisance dust: Inhalable dust 10 mg/m³, Respirable dust 4 mg/m³

Ammonium Sulphate, Long-term Exposure Limit (LTEL):

Long-term Exposure Limit (8 hour TWA): 10 mg/m³

Ferrous Sulphate Heptahydrate (CAS 7782-63-0), Desired No Effect Level (DNEL):

Worker: Acute systemic effects dermal: 2.8 mg/kg/day
 Acute systemic effects inhalative: 9.9 mg/m³
 Systemic long-term effects dermal: 2.8 mg/kg/day
 Systemic long-term effects inhalative: 9.9 mg/m³

General Population: Acute systemic effects oral: 1.4 mg/kg/day
 Acute systemic effects dermal: 1.4 mg/kg/day
 Acute systemic effects inhalative: 2.5 mg/m³
 Systemic long-term effects oral: 1.4 mg/kg/day
 Systemic long-term effects dermal: 1.4 mg/kg/day
 Systemic long-term effects inhalative: 2.5 mg/m³

Ferrous Sulphate Heptahydrate (CAS 7782-63-0), Predicted No Effect Concentration (PNEC):

The PNECs given in this section were derived based on the concentration which would cause a 10% increase above typical natural background levels of iron in soil and sediment. Thus the respective PNEC is equal to 110% of the typical natural background level of iron.

Water: Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests. Therefore no PNEC was derived.

Sewage Treatment Plants, Sediment and Soil:

STP:	500 mg/L	Sediment (Fresh Water):	49.5 g/kg
Sediment (Marine Water):	49.5 g/kg	Soil:	55.5 g/kg

Oral (food chain): Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests, therefore no PNEC was derived.

Urea, Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) WEL:	10 mg/m ³ inhalable dust
Long-term Exposure Limit (8 hour TWA) WEL:	4 mg/m ³ respirable dust



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SSP Single Superphosphate (CAS 8011-76-5), Desired No Effect Level (DNEL):

Worker:	Systemic long-term effects dermal: 17.4 mg/kg/day
	Systemic long-term effects inhalative: 3.1 mg/m ³
General Population:	Systemic long-term effects dermal: 10.4 mg/kg/day
	Systemic long-term effects inhalative: 0.9 mg/m ³
	Systemic long-term effects oral: 2.1 mg/kg/day
Coating Oil:	Long-term exposure limit (8 hour TWA)
	Workplace Exposure Limit (WEL): 5.0 mg/m ³

SSP Single Superphosphate (CAS 8011-76-5), Predicted No Effect Concentration (PNEC):

Fresh water:	1.7 mg/l	Marine water:	0.17 mg/m ³
Intermittent release:	17 mg/l	STP:	10 mg/L

Potash (CAS 7447-40-7), Desired No Effect Level (DNEL):

Worker:	Systemic long-term effects dermal: 580 mg/kg/day
	Systemic long-term effects inhalative: 292 mg/m ³
	Systemic short-term effects dermal: 580 mg/kg/day
	Systemic short-term effects inhalative: 292 mg/m ³

Potash (CAS 7447-40-7), Predicted No Effect Concentration (PNEC):

Fresh water:	0.047 mg/l	Marine water:	0.047 mg/m ³
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8.2. Exposure controls

Gloves:	wear protective gloves.
Eye/face protection:	wear eye protection.
Engineering controls:	all handling should only take place in well-ventilated areas.
Clothing:	wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures:	wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Respiratory protection:	no specific recommendations

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Granules
Colour:	Beige to dark brown
pH:	Slightly acidic
Flammability (solid, gas):	Mixture not classed as Flammable
Upper /lower flammability or explosive limits:	Mixture not classed as Explosive
Oxidising Properties:	Mixture not classed as oxidising
Specific gravity:	Not applicable
Solubility(ies):	Information not specified

9.2. Other information

No other relevant information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Not applicable.



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10.4. Conditions to avoid

Extremes of temperature

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Decomposes at high temperatures producing toxic nitrogen and sulphur oxide fumes

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity – oral:	ATE Oral (mg/kg): 2,721.84
Acute toxicity – dermal:	No specific test data are available.
Acute toxicity – inhalation:	No specific test data are available.
Serious eye damage/irritation:	Irritation of eyes is assumed. In-vitro testing conducted on products with SSP Content <62%, 2015, Result: Reduced classification to Eye Irritant from Eye Damage.
Respiratory sensitisation:	No specific test data are available.
Skin sensitisation:	Not determined.
Germ cell mutagenicity:	Genotoxicity - in vitro. This substance has no evidence of mutagenic properties.
Carcinogenicity:	No specific test data are available.
Reproductive toxicity:	Does not contain any substances known to be toxic to reproduction.
Specific target organ toxicity - single exposure:	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure:	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard:	Not anticipated to present an aspiration hazard, based on chemical structure.
Eye contact:	The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.
Ecotoxicity:	The product is not expected to be toxic to aquatic organisms

11.2. Other Information

None.

SECTION 12: Ecological Information

12.1. Toxicity

Not classified as hazardous. Provides nutrients essential to plant growth.

12.2. Persistence and degradability

The product is slowly degradable.

12.3. Bioaccumulative potential

Partition coefficient not known.

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Information not available.



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SECTION 13: Disposal Considerations

Disposal route should not permit contamination of groundwater.

13.1. Waste treatment methods

Disposal operations:	Dispose of waste and residues in accordance with local authority requirements.
Recovery operations:	Dispose of in compliance with all local and national requirements.
Disposal of packaging:	Empty containers should be disposed of in accordance with local and national regulations.
Note:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport Information

This product is not regulated for transport (ADR/RID,IMDG,IATA)

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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